

Serial Number: 09/939,853A

CRF Processing Date:

6/9/2003

Edited by:

Verified by:

M (STIC staff)**ENTERED** Changed a file from non-ASCII to ASCII Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically: _____ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____ Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: _____ Deleted extra, invalid, headings used by an applicant, specifically: _____ Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____ Inserted mandatory headings, specifically: _____ Corrected an obvious error in the response, specifically: _____ Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: _____ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____ Other: _____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/939,853A

DATE: 06/09/2003

TIME: 13:56:26

Input Set : N:\AMC\SEQUENCE LISTING CURA-399 US.DOC

Output Set: N:\CRF4\06092003\I939853A.raw

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/939,853A

DATE: 06/09/2003

TIME: 14:56:26

Input Set : N:\AMC\SEQUENCE LISTING CURA-399 US.DOC
 Output Set: N:\CRF4\06092003\I939853A.raw

60 Met Thr Gly Ile Leu Leu Ser Leu Gln Ser Gly Cys Val Ala Ala
 61 1 5 10 15
 62 Ile Thr Ser Met Ser Met Glu Cys Leu Cys Ser Ile Gly Ala Arg Leu
 63 10 20 25 30
 64 Cys Leu Ser Arg Ser Thr Leu Gly Ser Gln Ile Val Thr Val Pro Leu
 65 25 35 40 45
 66 Ser Pro Arg Ala Gly Glu Lys Ala Val Pro Val Asn Ser Cys Leu Asp
 67 30 35 40 45 50
 68 Pro Leu Trp Arg Ala Ala Glu Arg Gly Gly Ala Gly Asp Val Ala
 69 40 45 50 55 60
 70 Lys Asn Leu Arg Val Lys Val Met Leu Arg Ile Cys Ser Thr Leu Ala
 71 45 50 55 60 65
 72 Arg Asp Thr Ser Gln Ser Ser Phe Leu Lys Val Asp Pro Arg Lys
 73 50 55 60 65 70
 74 Lys Gln Ile Thr Leu Tyr Asp Pro Leu Thr Cys Gly Gly Gln Asn Ala
 75 55 60 65 70 75
 76 Asp Gln Lys Arg Gly Asn Gln Val Pro Pro Lys Met Phe Ala Phe Asp
 77 60 65 70 75 80
 78 Ala Val Phe Pro Gln Asp Ala Ser Gln Ala Gln Val Cys Ala Gly Thr
 79 65 70 75 80 85
 80 Val Ala Glu Val Ile Gln Ser Val Val Asn Gly Ala Asp Gly Cys Val
 81 70 75 80 85 90
 82 Phe Cys Phe Gly His Ala Lys Leu Gly Lys Ser Tyr Thr Met Ile Gly
 83 75 80 85 90 95
 84 Lys Asp Asp Ser Met Gln Asn Leu Gly Ile Ile Pro Cys Ala Ile Ser
 85 80 85 90 95 100
 86 Trp Leu Phe Lys Leu Ile Asn Glu Arg Lys Glu Lys Thr Gly Ala Arg
 87 85 90 95 100 105
 88 Val Ser Val Arg Val Ser Ala Val Glu Val Trp Gly Lys Glu Glu Asn
 89 90 95 100 105 110
 90 Leu Arg Asp Leu Leu Ser Glu Val Ala Thr Gly Ser Leu Gln Asp Gly
 91 95 100 105 110 115
 92 Gln Ser Pro Gly Val Tyr Leu Cys Glu Asp Pro Ile Cys Gly Thr Gln
 93 100 105 110 115 120
 94 Leu Gln Asn Gln Ser Glu Leu Arg Ala Pro Thr Ala Glu Lys Ala Ala
 95 105 110 115 120 125
 96 Phe Phe Leu Asp Ala Ala Ile Ala Ser Arg Arg Ser His Gln Gln Asp
 97 110 115 120 125 130
 98 Cys Asp Glu Asp Asp His Arg Asn Ser His Val Phe Phe Thr Leu His
 99 115 120 125 130 135
 100 Ile Tyr Gln Tyr Arg Met Glu Lys Ser Gly Lys Gly Gly Ile Leu Leu
 101 120 125 130 135 140
 102 Ser Ile Trp Asn Leu Lys Val Gly Arg Asn Leu Glu Asn Lys Glu Thr
 103 125 130 135 140 145
 104 Val His
 105 .110: SEQ ID NO: 3
 106 .111: LENGTH: 366
 107 .112: TYPE: PRT
 108 .113: ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/939,853A

DATE: 06/09/2003

TIME: 17:56:26

Input Set : N:\AMC\SEQUENCE LISTING CURA-399 US.DOC
 Output Set: N:\CRF4\06092003\I939853A.raw

135 <400> SEQUENCE: 3

136 Gln Val Ile Leu Tyr Asp Pro Ala Ala Gly Pro Pro Gly Ser Ala Gly
 137 1 5 10 15
 138 Pro Arg Arg Ala Ala Thr Ala Ala Val Pro Lys Met Phe Ala Phe Asp
 139 20 25 30
 140 Ala Val Phe Pro Gln Asp Ser Gln Gln Ala Glu Val Cys Ser Gly Thr
 141 35 40 45
 142 Val Ala Asp Val Leu Gln Ser Val Val Ser Gly Ala Asp Gly Cys Ile
 143 50 55 60
 144 Phe Ser Phe Gly His Met Ser Leu Gly Lys Ser Tyr Thr Met Ile Gly
 145 65 70 75 80
 146 Lys Asp Ser Ser Pro Gln Ser Leu Gly Ile Val Pro Cys Ala Ile Ser
 147 85 90 95
 148 Trp Leu Phe Arg Ile Glu Glu Arg Arg Glu Arg Phe Gly Thr Arg
 149 100 105 110
 150 Phe Ser Val Arg Val Ser Ala Val Glu Val Cys Gly Arg Asp Gln Ser
 151 115 120 125
 152 Leu Arg Asp Leu Leu Ala Glu Val Ala Pro Gly Ser Leu Gln Asp Thr
 153 130 135 140
 154 Gln Ser Pro Gly Val Tyr Leu Arg Glu Asp Pro Val Cys Gly Ala Gln
 155 145 150 155 160
 156 Leu Gln Asn Gln Ser Glu Leu Arg Ala Pro Thr Ala Glu Lys Ala Ala
 157 165 170 175
 158 Phe Tyr Leu Asp Ala Ala Leu Ala Arg Ser Thr Ser Arg Ala Gly
 159 180 185 190
 160 Cys Gly Glu Asp Ala Arg Arg Ser Ser His Met Leu Phe Thr Leu His
 161 195 200 205
 162 Val Tyr Gln Tyr Arg Met Glu Lys Cys Gly Arg Gly Gly Met Ser Gly
 163 210 215 220
 164 Gly Arg Ser Arg Leu His Leu Ile Asp Leu Gly Ser Cys Glu Ala Ala
 165 225 230 235 240
 166 Ala Gly Arg Ala Gly Glu Ala Ala Gly Gly Pro Leu Cys Leu Ser Leu
 167 245 250 255
 168 Ser Ala Leu Gly Ser Val Ile Leu Ala Leu Val Asn Gly Ala Lys His
 169 260 265 270
 170 Val Pro Tyr Arg Asp His Arg Ile Thr Met Leu Leu Arg Glu Ser Leu
 171 275 280 285
 172 Ala Thr Ala Gly Cys Arg Thr Thr Met Ile Ala His Val Ser Asp Ala
 173 290 295 300
 174 Pro Ala Gln His Ala Glu Thr Leu Ser Thr Val Gln Leu Ala Ala Arg
 175 305 310 315 320
 176 Ile His Arg Leu Arg Arg Lys Lys Ala Lys Tyr Ala Ser Ser Ser
 177 325 330 335
 178 Gly Gly Glu Ser Ser Cys Glu Glu Gly Arg Ala Arg Arg Pro Pro His
 179 340 345 350
 180 Leu Arg Pro Phe His Pro Arg Thr Val Ala Leu Asp Pro Asp
 181 355 360 365
 182 <10> SEQ ID NO: 4
 183 LENGTH: 130

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/939,853A

DATE: 06/09/2003

TIME: 18:06:26

Input Set : N:\AMC\SEQUENCE LISTING CURA-399 US.DOC
 Output Set: N:\CRF4\06092003\I939853A.raw

108 <212> TYPE: PRT
 109 <213> ORGANISM: Mus musculus
 110 <400> SEQUENCE: 4
 111 Pro Ala Pro Thr Gly Lys Ser Tyr Thr Met Ile Gly Arg Asp Asp Ser
 112 1 5 10 15
 113 Met Gln Asn Leu Gly Ile Ile Pro Cys Ala Ile Ser Trp Leu Phe Lys
 114 20 25 30 35 40 45
 115 Leu Ile Asn Glu Arg Lys Glu Lys Tyr Gly Ala Arg Phe Ser Val Arg
 116 35 40 45
 117 Ile Ser Ala Val Glu Val Trp Gly Lys Glu Glu Asn Leu Arg Asp Leu
 118 50 55 60
 119 Leu Ser Glu Val Ala Thr Gly Ser Leu Gln Asp Gly Gln Ser Pro Gly
 120 65 70 75 80
 121 Val Tyr Leu Cys Glu Asp Pro Ala Glu Lys Ala Ala Phe Phe Leu Asp
 122 85 90 95
 123 Ala Ala Ile Asn Ser Arg Arg Ser Asn Gln Gln Asp Cys Asp Glu Asp
 124 100 105 110
 125 Asp His Arg Asn Ser His Met Leu Phe Thr Leu His Ile Tyr Gln Tyr
 126 115 120 125
 127 Arg Met
 128 130
 129 <10> SEQ ID NO: 6
 130 <11> LENGTH: 147
 131 <12> TYPE: PRT
 132 <213> ORGANISM: Mus musculus
 133 <400> SEQUENCE: 5
 134 Gly Lys Ser Tyr Thr Met Ile Gly Lys Asp Ser Ser Pro Gln Ser Leu
 135 1 5 10 15
 136 Gly Ile Val Pro Cys Ala Ile Ser Trp Leu Phe Arg Leu Ile Asp Glu
 137 20 25 30
 138 Arg Lys Glu Arg Leu Gly Thr Arg Phe Ser Ile Arg Val Ser Ala Val
 139 35 40 45
 140 Glu Val Cys Gly His Asp Gln Ser Leu Arg Asp Leu Leu Ala Glu Val
 141 50 55 60
 142 Ala Ser Gly Ser Leu Gln Asp Thr Gln Ser Pro Gly Val Tyr Leu Arg
 143 65 70 75 80
 144 Glu Asp Pro Val Cys Gly Thr Gln Leu Gln Asn Gln Asn Glu Leu Arg
 145 85 90 95
 146 Ala Pro Thr Ala Glu Lys Ala Ala Phe Tyr Leu Asp Ala Ala Leu Ala
 147 100 105 110
 148 Ala Arg Ser Thr Ser Arg Ala Gly Cys Gly Glu Ala Arg Arg Ser
 149 115 120 125
 150 Ser His Met Leu Phe Thr Leu His Val Tyr Gln Tyr Arg Val Glu Lys
 151 130 135 140
 152 Cys Gly Gln
 153 145
 154 <10> SEQ ID NO: 6
 155 <11> LENGTH: 302
 156 <12> TYPE: PRT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/939,853A

DATE: 06/09/2003

TIME: 13:56:26

Input Set : N:\AMC\SEQUENCE LISTING CURA-399 US.DOC
 Output Set: N:\CRF4\06092003\I939853A.raw

280 <213> ORGANISM: Drosophila melanogaster
 281 <400> SEQUENCE: 6
 282 Met Ala Thr Thr Ser Thr Ser Asn Met Ser Arg Asn Gly Gly Phe Lys
 283 1 5 10 15
 284 Gly Ala Leu Gln Arg Ala Pro Pro Pro Met Pro Pro Thr Leu Ile Arg
 285 10 25 30
 286 Arg Leu Ser Ser Arg Glu Cys Tyr Gly Val Gly Lys Val Lys Val Met
 287 35 40 45
 288 Leu Arg Val Ala Asp Arg Asp Arg Asn Ser Gly Gly Thr Glu Pro Asp
 289 50 55 60
 290 Phe Met Ala Leu Asp Lys Lys Arg Gln Val Thr Leu Thr Asp Pro
 291 65 70 75 80
 292 Arg Thr Ala Cys Pro Pro Pro Gln Ala Ala Gln Glu Arg Ala Pro Met
 293 85 90 95
 294 Val Ala Ala Pro Lys Met Phe Ala Phe Asp Asn Leu Phe Thr Gly Glu
 295 100 105 110
 296 Asp Lys Gln Ser Asp Val Cys Ala Ser Ala Leu Ser Glu Val Ile Pro
 297 115 120 125
 298 Ala Val Leu Glu Gly Ser Asp Gly Cys Leu Leu Ala Met Gly Tyr Pro
 299 130 135 140
 300 Ala Thr Gly Gln Ala Gln Thr Val Leu Gly Glu Leu Gly Gly Ser
 301 145 150 155 160
 302 Gly Ser Gly Ser Ala Ser Gly Ser Gly Val Ala Cys Ser Leu Gly Ala
 303 165 170 175
 304 Ala Pro Cys Ala Ile Ala Trp Leu Tyr Lys Gly Ile Gln Glu Arg Arg
 305 180 185 190
 306 Gln Lys Ser Gly Ala Arg Phe Ser Val Arg Val Ser Ala Val Gly Val
 307 195 200 205
 308 Ser Ala Thr Lys Pro Asp Ala Leu Ser Gln Asp Leu Leu Ile Ser His
 309 210 215 220
 310 Ala Ala Glu Tyr Gly Val Tyr Ser His Ile Lys Pro Asn Ala Leu Phe
 311 225 230 235 240
 312 Ile His Ser Pro Leu Leu Phe Phe Trp Ser Gln Tyr Trp Asn Ser Gly
 313 245 250 255
 314 Ser Asp Tyr Gly Tyr Thr Glu Ser Asp Asp Ser Pro Gly Ile Tyr Leu
 315 260 265 270
 316 Arg Asp Asp Phe Leu Ala Val Gln Arg Asn Tyr Val His Pro Pro Pro
 317 275 280 285
 318 Ser Val Arg Pro Phe Ser Ser Thr Gln Arg Ser Pro Asp Ala
 319 290 295 300
 320 <210> SEQ ID NO: 7
 321 <211> LENGTH: 359
 322 <212> TYPE: PFT
 323 <213> ORGANISM: Caenorhabditis elegans
 324 <400> SEQUENCE: 7
 325 Met Glu Ala Cys Ser Ser Lys Thr Ser Leu Leu Leu His Ser Pro Leu
 326 1 5 10 15
 327 Arg Thr Ile Pro Lys Leu Arg Leu Cys Ala Ser Ile Ser Ser Glu Asp
 328 20 25 30

VERIFICATION SUMMARY

PATENT APPLICATION: **US/09/939,853A**

DATE: 06/09/2003

TIME: 18:56:27

Input Set : N:\AMC\SEQUENCE LISTING CURA-399 US.DOC

Output Set: N:\CRF4\06092003\I939853A.raw